

Louisiana State Implementation Plan Revision

Calcasieu Parish Section 110(a)(1) Maintenance Plan

Submitted to:

EPA Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

Draft March 2007





DEPARTMENT OF ENVIRONMENTAL QUALITY

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March 20, 2007

Mr. Thomas H. Diggs
Section Chief 6PD-L
US EPA Region 6
1445 Ross Avenue, Suite 1200
Dallas, TX 75202-2733

RE: Calcasieu Parish Section 110(a)(1) Maintenance Plan

Dear Mr. Diggs:

Please find enclosed 5 bound copies of the draft revision to the State Implementation Plan (SIP) for the Calcasieu Parish Section 110(a)(1) Maintenance Plan.

A public hearing on the proposed revisions to the SIP will be held in Baton Rouge at 1:30 p.m. on April 25, 2007, in the Galvez Building, Oliver Pollock Room C-111, 602 N. Fifth Street, Baton Rouge, La.

Written comments regarding the proposed SIP revision should be mailed to Vivian H. Aucoin, Office of Environmental Assessment, P. O. Box 4314, Baton Rouge, La., 70821-4314 or faxed to (225) 219-3582. Comments must be received by 4:30 p.m., May 2, 2007.

If you have any questions concerning this matter, please feel free to contact me at 225-219-3550.

Sincerely,

Teri F. Lanoue
Environmental Scientist Manager
Air Quality Assessment Division

Enclosures

ENVIRONMENTAL ASSESSMENT

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Executive Summary

Calcasieu Parish was designated under section 107 of the 1977 Clean Air Act as *nonattainment for the National Ambient Air Quality Standard (NAAQS)* for ozone on September 11, 1978. The State Implementation Plan (SIP) for the parish was first adopted in the early 1980's.

Following the federal Clean Air Act Amendments (CAAA) of 1990, Calcasieu Parish was classified as a "marginal" ozone nonattainment area pursuant to sections 107(d) and 181(a) of the CAAA (56 FR 56694) with an attainment date of November 15, 1993. Following the collection of the required ambient ozone air monitoring data needed for redesignation of Calcasieu Parish, an ozone maintenance plan was developed in accordance with section 175A of the CAAA. On December 20, 1995, a redesignation request and an ozone maintenance plan were submitted to the Environmental Protection Agency (EPA). The EPA redesignated Calcasieu Parish to attainment for the one-hour ozone standard and approved the ozone maintenance plan effective June 2, 1997 (62 FR 24036).

On April 15, 2004, EPA designated and classified areas for the 8-hour ozone NAAQS of 0.08 parts per million (ppm) (69 FR 23858, April 30, 2004). For most areas these designations became effective June 15, 2004. EPA designated Calcasieu Parish as attainment/unclassifiable for the 8-hour ozone standard effective June 15, 2004.

Section 110(a)(1) of the CAAA requires that each state adopt and submit to EPA a plan which provides for implementation, maintenance and enforcement of the primary pollutant standard following the promulgation of a NAAQS for any air pollutant. States must submit Section 110(a)(1) maintenance plans no later than three (3) years after the effective date of the area's 8-hour ozone NAAQS designation. The Section 110(a)(1) 8-hour ozone maintenance plan for Calcasieu Parish must be submitted no later than June 15, 2007.

On May 20, 2005, EPA issued "*Maintenance Plan Guidance Document for Certain 8-hour Ozone Areas Under Section 110(a)(1) of the Clean Air Act*". The guidance specifies that states include the following components in the maintenance plan:

- Attainment inventory;
- Maintenance demonstration;
- Ambient air quality monitoring;
- Verification of continued attainment; and
- Contingency plan.

With the submittal of this ozone maintenance plan for Calcasieu Parish which is a revision to the Louisiana State Implementation Plan (SIP), the state is fulfilling the requirements of Section 110(a)(1) under the 8-hour ozone standard.

Section 1: Introduction

1.1 Background

1.1.1 1-hour Ozone in Calcasieu Parish

Prior to the 1990 amendments to the Clean Air Act, the EPA identified and designated nonattainment areas with respect to the NAAQS. For such areas, States submitted SIPs to control emissions and achieve attainment of the NAAQS. Calcasieu Parish was originally designated as nonattainment for ozone on September 11, 1978. The SIP for Calcasieu was first adopted in the early 1980's.

On November 15, 1990, the CAAA were enacted (Public Law 101-549, 104 Stat. 2399, codified at 42 U.S.C. 7401-7671q). Calcasieu Parish was classified as a "marginal" ozone nonattainment area pursuant to sections 107(d) and 181(a) of the CAAA (56 FR 56694) with an attainment date of November 15, 1993. The ozone nonattainment designation for Calcasieu Parish continued by operation of law according to section 107(d)(1)(C)(i) of the CAA, as amended in 1990 (See 56 FR 56694, November 6, 1991). Since the State had not yet collected in Calcasieu Parish the required three (3) years of ambient ozone air quality monitoring data necessary to petition for redesignation to attainment, the area continued its designation as a marginal ozone nonattainment area. Due to technical problems with the Vinton monitoring site in 1993, EPA deferred making an attainment determination for Calcasieu until the monitoring issue was resolved.

In order to demonstrate attainment with the 1-hour ozone NAAQS, the state collected the required ambient monitoring data in Calcasieu Parish that showed no violations of the 0.12 ppm 1-hour ozone standard; developed an ozone maintenance plan for the parish in accordance with section 175A of the CAAA; and on December 20, 1995, submitted to EPA for approval a request for redesignation to attainment and the ozone maintenance plan. The request was accompanied by ambient air monitoring data that showed no violations of the NAAQS standard of 0.12 parts per million (ppm) for a period of three years.

On May 2, 1997, EPA published a final rulemaking approving a revision to the Louisiana SIP to redesignate Calcasieu Parish to attainment for ozone (62 FR 24036). EPA determined that the redesignation request and maintenance plan met the requirements for redesignation in section 107 (d)(3)(E) of the CAAA. The EPA also determined that the redesignation met the requirements of section 182 (a)(1) of the CAAA as a revision to the Louisiana ozone SIP for Calcasieu Parish. The redesignation of Calcasieu Parish to attainment for ozone was effective June 2, 1997.

In July 1997, EPA revised the air quality standards for ozone replacing the 1979 one-hour standard with an 8-hour standard set at 0.08 ppm. The standard was challenged by a number of plaintiffs. The EPA reinstated the 1-hour standard effective October 18, 2000 (65 FR 45181).

Calcasieu Parish experienced 6 ozone exceedance days during the years 1998, 1999 and 2000. Four or more exceedances during any consecutive three-year period constitute violation of the ozone NAAQS. This violation triggered the contingency measures in the approved ozone maintenance plan for Calcasieu. Certain provisions of the VOC emission control regulations contained in LAC 33:III.Chapter 21 were revised to become more stringent. Calcasieu Parish has remained in attainment with the 1-hour standard for the ozone seasons of 2002 through 2005. The 1-hour ozone standard was most recently revoked effective June 15, 2005.

1.1.2 8-hour Ozone in Calcasieu Parish

On April 15, 2004, the EPA designated and classified areas for the 8-hour ozone NAAQS (69 FR 23858, April 30, 2004). Calcasieu Parish was designated attainment with an effective date of June 15, 2004.

1.2 Geographic Location/Parish Description

Calcasieu Parish is located in southwest Louisiana and has a total area of 1071 square miles. The parish seat is the city of Lake Charles. Calcasieu Parish has a population of approximately 183,577 as of the 2000 Census.¹ Calcasieu Parish is bordered by the state of Texas to the west, Jefferson Davis Parish to the east, Beauregard Parish to the north and Cameron Parish to the south.

Calcasieu Parish's industrial base is related to the petrochemical industries common in Louisiana. The parish also supports a large agricultural community primarily in rice and beef production. At present, the Port of Lake Charles is accessible to ocean-going vessels and is 34 miles from the Gulf of Mexico, making it the closest of the three deep water ports in Louisiana.

¹ http://en.wikipedia.org/wiki/Calcasieu_Parish,_Louisiana

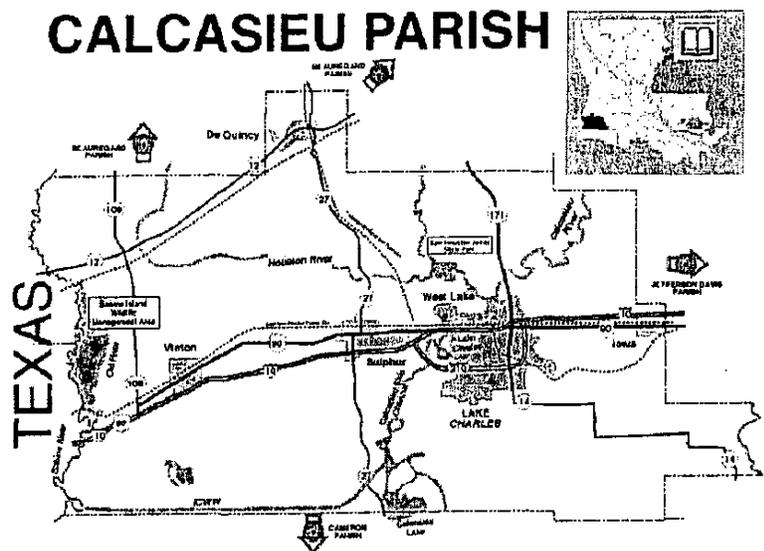


Figure 1: State Map Illustrating Calcasieu Parish

1.3 Public Notice

In accordance with La. R.S. 49:950 et seq., and to comply with 40 CFR 51.285 Public Notification, the Louisiana Department of Environmental Quality published a notice seeking comment on this SIP revision on March 20, 2007 in the *Louisiana Register*. A public hearing concerning this proposed SIP revision will be held at 1:30pm on April 25, 2007 in the Galvez Building, Oliver Pollock Room C-111, at 602 N. Fifth Street in Baton Rouge, Louisiana. Interested parties are invited to submit written or oral comments on the proposal at that time. The comment period closes on May 2, 2007. A copy of the public notice is included in Appendix C.

Section 2: Emissions Inventory

2.1 Overview

Section 110(a)(2)(B) of the CAAA and the Consolidated Emissions Reporting Rule (67 FR 39602, June 10, 2002) requires that emissions inventories (EIs) be prepared for ozone nonattainment areas. Because ozone is photochemically produced in the atmosphere when volatile organic compounds (VOC) and nitrogen oxides (NO_x) mix in the presence of sunlight, information on sources of these precursor pollutants must be compiled. The EI identifies the types of emission sources present in an area, the amount of each pollutant emitted, and the types of processes and control devices employed at each plant or source category. The EI provides data for a variety of air quality planning tasks, including establishing baseline emission levels, calculating emission reduction targets, developing control strategy for achieving the required emission reductions, emissions inputs into air quality simulation models, and tracking actual emission reduction against the established emissions growth and control budgets. The total anthropogenic inventory of emissions of VOC and NO_x for an area is summarized from the estimates developed for four general categories of emissions sources: point, non-point, on-road mobile, and non-road mobile.

2.2 Point Sources

The State of Louisiana compiles a statewide emissions inventory for point sources on an annual basis. The reporting requirements for the nonattainment area are in accordance with those of the CAAA of 1990. Emissions data provided by the facilities are estimates of actual emissions for the facility during the previous calendar year. Estimation methodologies are required to follow state and federal guidelines utilizing AP-42 or other approved methods. Actual testing or measurement data may be substituted as available.

For the purposes of emissions inventory, point sources are defined as stationary commercial or industrial operations that emit 100 tons or more per year of VOC or NO_x. Each facility meeting the emissions criteria submitted complete EI reports which contain site-specific data in conformance with EPA guidance for ozone maintenance areas. A list of point sources located in Calcasieu Parish is included in Appendix A.

2.3 Non-point Sources

Non-point sources, also known as area sources, are the many small, individually unidentified points of air pollution emissions within a specified geographical area. Typically these sources are too

numerous or too small to be addressed individually and include, but are not limited to, activities such as dry cleaning, bakeries, graphic arts, auto refinishing, and consumer product usage. Emission factors used to estimate emissions are developed and applied for the aggregate source categories.

The data used for this section was provided by E.H. Pechan & Associates, Inc. through the Central Regional Air Planning Association (CENRAP). The methodology for the stationary non-point source section can be found in Section C, page 26, of the *Consolidation of Emissions Inventories (Schedule 9; Work Item 3)* of Appendix D at <http://www.deq.louisiana.gov/portal/Default.aspx?tabid=2542>

2.4 On-road Mobile Sources

On-road mobile vehicles are those light and heavy duty gasoline and diesel automobiles and trucks that travel primarily on public highways. On-road mobile emissions of VOC and NO_x were estimated using EPA's MOBILE6.2 motor vehicle emissions factor model. Data and projections are based on Highway Performance Monitoring System (HPMS) data from the annual US Highway Statistics Report Section V. The emission estimates assume the summertime use of federally required low Reid Vapor Pressure gasoline in Calcasieu Parish. (See Appendix B)

2.5 Non-road Mobile Sources

Non-road mobile sources are often included as nonpoint sources because of the number and size of sources. Non-road mobile sources include, but are not limited to, railroad locomotives, aircraft, commercial marine vessels, farm equipment, recreational boating, and lawn equipment.

Non-road mobile emissions data was derived from the "Emission Inventory Development For Mobile Sources and Agricultural Dust Sources for the Central States" produced by Sonoma Technology, Inc. for The Central States Air Resource Agencies in October 2004². The inventory was developed using NONROAD 2004, which is EPA's most current emissions factor model for most non-road mobile sources. For other source categories, NONROAD default activity data were used in conjunction with region specific fuels information to estimate emissions. In addition, EPA guidance documents were consulted for emissions estimation methods for locomotives and commercial marine vessels.

² <http://www.deq.louisiana.gov/portal/Default.aspx?tabid=2542>

Section 3: Attainment Inventory

3.1 Inventory Description

The attainment inventory should be based on actual "typical summer day" emissions of VOC and NO_x. For purposes of the attainment emissions inventory, the state is using 2002 as the baseline attainment year since it is one of the three years (2001, 2002, 2003) on which the 8-hour ozone designation was based. Table 3-1 summarizes the 2002 VOC and NO_x emissions totals by source categories which comprise the attainment inventory for Calcasieu Parish. The source categories include stationary point, non-point, non-road mobile, and on-road mobile.

Table 3-1 Calcasieu Parish Attainment Inventory - 2002

Sources	VOC (tpd)	NO _x (tpd)
Point	22.27	92.02
Non-Point	13.88	16.73
Non-road Mobile	4.73	8.26
On-road Mobile	8.71	16.34
Totals	49.59	133.35

3.2 Projected Emissions Inventory

The 2002 attainment inventory has been grown for the final plan year of 2014 and for the interim years of 2008 and 2011. The 2002 emissions inventory was submitted to EPA for the National Emissions Inventory to comply with the requirements of the Consolidated Emissions Reporting Rule (CERR). Point source and non-point growth projections were derived from EGAS 4.0. Non-road mobile growth projections for SCC codes 2275, 2280, and 2285 were derived from EGAS 4.0; other non-road mobile growth projections were derived from the National Mobile Inventory Model (NMIM). On-road mobile projections were discussed in section 2.4.

3.3 Emissions Inventory Summary

Tables 3-2 and 3-3 summarize the 2002 attainment/baseline year and interim emission projections for the years 2008, 2011 and 2014 for Calcasieu Parish. In 2002 VOC emissions totaled

approximately 49.59 tpd and NOx emissions totaled approximately 133.35 tpd. Emission projections for future years indicate a downward trend in VOC and an increase in NOx through 2014.

Table 3-2 Calcasieu Parish: VOC Emissions Inventory Baseline (2002) and Projections (2008, 2011, 2014) in Tons per Day

Sources	2002 (tpd)	2008 (tpd)	2011 (tpd)	2014 (tpd)
Point	22.27	23.28	24.43	25.51
Non-point	13.88	14.67	15.17	15.63
Non-road Mobile	4.73	4.82	4.48	4.08
On-road Mobile	8.71	5.63	4.48	3.71
Total (tpd)	49.59	48.40	48.56	48.93

Table 3-3 Calcasieu Parish: NOx Emissions Inventory Baseline (2002) and Projections (2008, 2011, 2014) in Tons per Day

Sources	2002 (tpd)	2008 (tpd)	2011 (tpd)	2014 (tpd)
Point	92.02	97.38	102.69	107.67
Non-point	16.73	17.57	18.13	18.62
Non-road Mobile	8.26	7.69	7.37	6.96
On-road Mobile	16.34	10.54	7.80	5.69
Total (tpd)	133.35	133.18	135.99	138.94

Section 4: Maintenance Demonstration

4.1 Demonstration Requirement

The maintenance plan must demonstrate that the area will remain in compliance with the 8-hour ozone standard for the ten (10) year period following the effective date of designation. The end projection year for the maintenance plan is ten (10) years from the effective date of the attainment designation. The maintenance demonstration is satisfied if the state demonstrates that future emissions inventories are less than the attainment or baseline inventory. Calcasieu Parish has an effective date of designation of June 15, 2004, which means that maintenance must be demonstrated through 2014.

The state has identified the level of precursor emissions in Calcasieu Parish that is sufficient to attain the NAAQS, i.e. the 2002 attainment inventory, and established interim emission projections of ozone precursors for the years 2008, 2011 and 2014 to demonstrate maintenance. A comparison of emission growth projections for VOC and NO_x through 2014 to the 2002 attainment inventory for the parish indicates a downward trend in VOC while NO_x emissions are projected to increase. (See Tables 3-2 and 3-3)

4.2 Plan to Maintain Air Quality

The state has implemented enforceable emission control regulations to ensure continued maintenance of the ozone standard. Control measures also have been developed, promulgated and implemented at the federal level to reduce ozone-forming emissions of VOC and NO_x. Development and subsequent implementation of other federal measures will result in additional emission reductions of VOC and NO_x during the 10-year maintenance period. Federal measures which have been implemented or are currently in some phase of implementation include, but are not limited to:

- National VOC Emission Standards for Automobile Refinish Coatings (63 FR 48806)
- National VOC Emission Standards for Consumer Products (63 FR 48819)
- National VOC Emission Standards for Architectural Coatings (63 FR 48848)
- Tier 2 Motor Vehicle Emission Standards and Gasoline Sulfur Control Requirements (65 FR 6697)
- Heavy-Duty Engine and Vehicle Standards and Highway Diesel Fuel Sulfur Control Requirements (66 FR 5002)
- Control of Emissions from Nonroad Diesel Engines and Fuels (69 FR 38958)
- Clean Air Interstate Rule (70 FR 25162)

4.3 Other Methods to Demonstrate Maintenance

EPA guidance indicates that maintenance may be demonstrated using other methods such as modeling. Updated EPA modeling conducted for the Clean Air Interstate Rule (CAIR) demonstrates that implementation of CAIR in subject states will result in continued maintenance and/or attainment with the ozone standard, including some nonattainment areas achieving attainment. Louisiana is a state which must implement CAIR and the CAIR modeling indicates that all Louisiana parishes will be in attainment with the 8-hour ozone standard by 2010 with continued attainment to 2015. Therefore based on EPA CAIR modeling, Calcasieu Parish is expected to maintain attainment with the current 8-hour ozone for the duration of the maintenance period.

Section 5: Ambient Air Quality Monitoring

5.1 Attainment of the 1-Hour Ozone Standard

The monitoring sites in Calcasieu Parish (EPA AQS code 22 019 0002, 0008, and 0009) have been in operation since October 1983, September 1992 and October 1992 respectively and have operated in accordance with the requirements of 40 CFR 58 and the EPA-approved Quality Assurance Program Plan. The NAAQS for 1-hour ozone is 120 parts per billion (ppb) based on a 1-hour average sample. Because of rounding, a 1-hour monitor reading of 125 ppb is considered an exceedance of the 1-hour ozone standard, whereas a reading of 124 ppb is considered as meeting the standard.

For the 3-year period of 2003, 2004 and 2005, the Calcasieu network monitored attainment with the 1-hour ozone NAAQS through the end of calendar year 2005. The design value for Carlyss was 113 ppm; Westlake at 98 ppm; and Vinton at 106 ppm. EPA revoked the 1-hour ozone standard effective June 15, 2005.

5.2 Attainment of the 8-Hour Ozone Standard

The NAAQS for 8-hour ozone is 80 ppb based on the three-year average of the fourth-highest daily maximum 8-hour average ozone concentrations measured at each monitor within an area. An 8-hour monitor reading of 85 ppb is considered an exceedance of the 8-hour ozone standard and a reading of 84 ppb is considered as meeting the standard. Figure 2a-2c illustrates the trend in 8-hour ozone design values in ppb for the Calcasieu sites from 1998 through 2005.

Figure 2a: 8-Hour Design Value for Monitor No. 22-019-0002

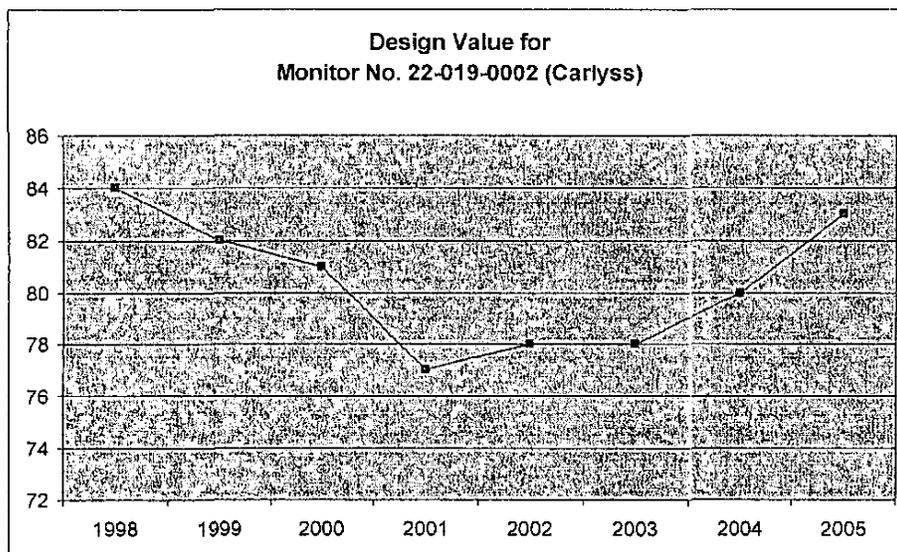


Figure 2b: 8-Hour Design Value for Monitor No. 22-019-0008

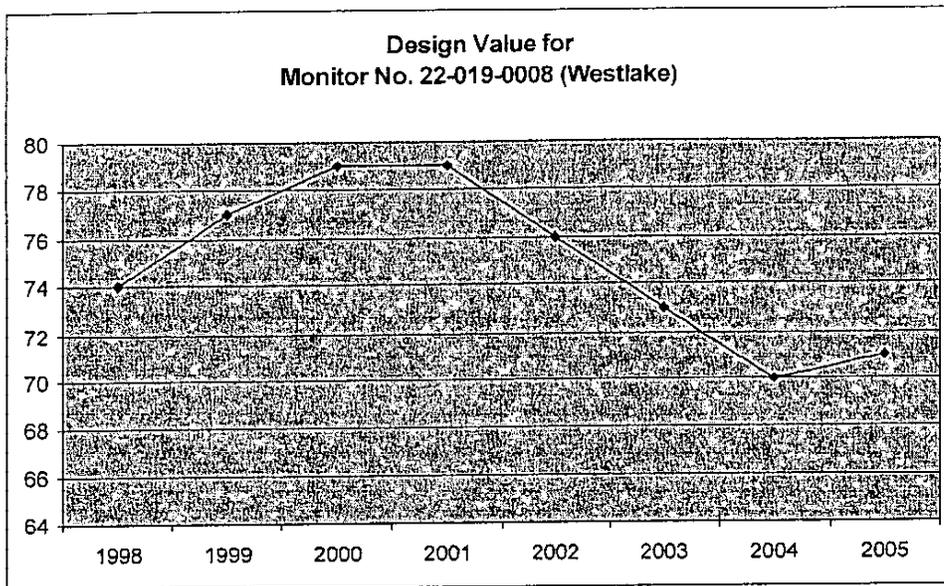


Figure 2c: 8-Hour Design Value for Monitor No. 22-019-0009

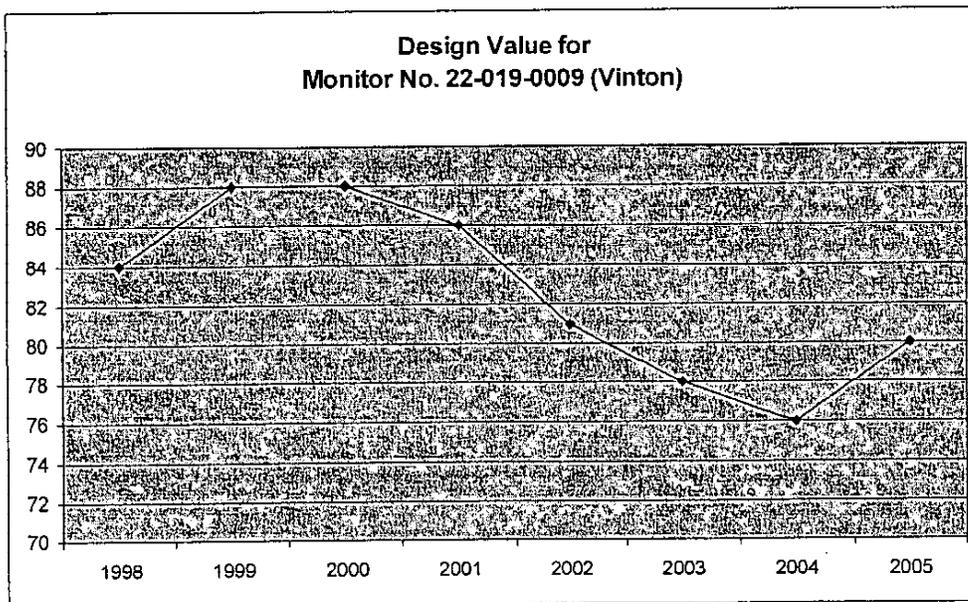


Table 5-1, 5-2, and 5-3 indicates that the area has monitored attainment for the latest five complete three-year periods.

**Table 5-1 Calcasieu Parish
 Carlyss Monitor # 22-019-0002
 8-Hour Ozone Design Values 1993-2005**

Year	1st	2 nd	3 rd	4 th	# of days	Design Value (ppb)
1998	92	92	91	90	7	84
1999	77	77	74	73	0	82
2000	94	87	83	82	2	81
1999	77	77	74	73	0	82
2000	94	87	83	82	2	81
2001	84	81	78	78	0	77
2000	94	87	83	82	2	81
2001	84	81	78	78	0	77
2002	81	76	76	74	0	78
2001	84	81	78	78	0	77
2002	81	76	76	74	0	78
2003	100	90	87	84	3	78
2002	81	76	76	74	0	78
2003	100	90	87	84	3	78
2004	87	84	83	82	1	80
2003	100	90	87	84	3	78
2004	87	84	83	82	1	80
2005	91	90	86	85	4	83

**Table 5-2 Calcasieu Parish
Westlake Monitor # 22-019-0008
8-Hour Ozone Design Values 1998-2005**

Year	1st	2nd	3rd	4th	# of days	Design Value (ppb)
1998	85	85	79	78	2	74
1999	81	78	77	77	0	77
2000	91	88	87	84	3	79
1999	81	78	77	77	0	77
2000	91	88	87	84	3	79
2001	83	82	79	77	0	79
2000	91	88	87	84	3	79
2001	83	82	79	77	0	79
2002	72	70	70	68	0	76
2001	83	82	79	77	0	79
2002	72	70	70	68	0	76
2003	81	78	77	75	0	73
2002	72	70	70	68	0	76
2003	81	78	77	75	0	73
2004	80	77	72	67	0	70
2003	81	78	77	75	0	73
2004	80	77	72	67	0	70
2005	77	76	73	72	0	71

**Table 5-3 Calcasieu Parish
Vinton Monitor # 22-019-0009
8-Hour Ozone Design Values 1993-2005**

Year	1st	2nd	3rd	4th	# of days	Design Value (ppb)
1998	99	92	88	86	4	84
1999	95	93	92	88	6	88
2000	95	94	91	90	7	88
1999	95	93	92	88	6	88
2000	95	94	91	90	7	88
2001	93	92	80	80	2	86
2000	95	94	91	90	7	88
2001	93	92	80	80	2	86
2002	76	76	74	73	0	81
2001	93	92	80	80	2	86
2002	76	76	74	73	0	81
2003	95	85	84	83	2	78
2002	76	76	74	73	0	81
2003	95	85	84	83	2	78
2004	84	82	82	73	0	76
2003	95	85	84	83	2	78
2004	84	82	82	73	0	76
2005	90	89	85	85	4	80

Section 6: Verification of Continued Attainment

Louisiana will continue to operate an appropriate ambient ozone monitoring network to verify continued attainment of the 8-hour ozone NAAQS. The air monitoring results will reveal changes in the ambient air quality as well as assist Louisiana in determining whether or not implementation of any contingency measures is necessary. The state will continue to work with the EPA through the air monitoring network review process, as required by 40 CFR Part 58, to determine: 1.) the adequacy of the ozone monitoring network; 2.) if additional monitoring is needed; and 3.) when monitoring can be discontinued. Air monitoring data will continue to be quality assured according to federal requirements.

Section 7: Contingency Plan

7.1 Contingency Implementation

The section 110(a)(1) maintenance plan include contingency measures to promptly address any violation of the NAAQS that occurs. The contingency plan ensures that the contingency measures are adopted expeditiously once they are triggered.

The contingency plan for the ozone maintenance area is triggered upon monitoring a violation of the 8-hour ozone standard. Implementation of contingency measures will occur within 24 months of the triggering event.

Implementation of the contingency plan involves analysis of data to determine the cause of the violation. If, after this analysis is complete, the state determines that the violation was caused by events that can be controlled within the state's jurisdiction through regulatory actions, the state will determine the appropriate measures for implementation in the area and implement such measures within the 24 month period suggested by EPA guidance.

Determination of the appropriate contingency measure(s) for implementation will involve the following actions:

- Identification of potential sources for emission reductions;
- Identification/evaluation of prospective control measures;
- Initiation of stakeholder process; and
- Implementation of contingency measures through promulgation of appropriate control rules adhering to public notice and comment requirements.

7.2 Contingency Measures

Contingency measures to be considered for implementation will include, but will not be limited to the following:

- Additional VOC emission control regulations as appropriate;
- NO_x emission control regulations as appropriate;
- Other measures deemed appropriate at the time.

Appendix A

Point Source Facility List

Calcasieu Parish Sec. 110(a)(1) Maintenance Plan

Calcasieu Parish Point Source Facility List

(Facilities that emit 100 tons or more of VOC or NOx per year)

Page 1

Parish Code	Parish	EIS-ID	Company Name	2002 NOx TPY	2002 VOC TPY
520	Calcasieu	1	Grace Davidson	283	9
520	Calcasieu	4	PPG Industries	8941	211
520	Calcasieu	5	Conoco Refinery	1626	911
520	Calcasieu	6	Basell USA Inc	138	50
520	Calcasieu	7	Firestone Polymers	98	1280
520	Calcasieu	11	Lake Charles Carbon	362	363
520	Calcasieu	12	Georgia Gulf, Lake Charles	110	11
520	Calcasieu	13	Plant #1, Swift Road	149	1
520	Calcasieu	14	EGSI/Nelson	7890	155
520	Calcasieu	16	CITGO Corp	8099	3194

Calcasieu Parish Point Source Facility List

(Facilities that emit 100 tons or more of VOC or NOx per year)

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Parish Code	Parish	EIS-ID	Company Name	2002 NOx TPY	2002 VOC TPY
520	Calcasieu	17	SASOL NA	1781	569
520	Calcasieu	69	Lake Charles CALC Plant	827	14
520	Calcasieu	71	WPC 3525 Cities Service	24	300
520	Calcasieu	119	L C Pipeline	0	156
520	Calcasieu	145	Westlake Petrochemical	1166	389
520	Calcasieu	161	EGSI/NISCO	1625	22
520	Calcasieu	189	Lyondell Chemical Company	446	46
520	Calcasieu	222	GOSS BAY	0	183
520	Calcasieu	229	Stream 25 #1	10	136
520	Calcasieu	260	WLM Lawton and Vinton Drip	14	136

Appendix B

On-road Mobile Emissions Summaries

Calcasieu Parish Sec. 110(a)(1) Maintenance Plan

Appendix B

CALCASIEU PARISH ONROAD MOBILE
EMISSION SUMMARIES

Including:
MOBILE6 Input and Output files for
2002, 2008, 2011, and 2014; RVP 7.8

2002 ACTUAL ON-ROAD MOBILE EMISSIONS INVENTORY
 CALCASIEU PARISH
 PEAK OZONE SEASON, RVP 7.8

ROAD CLASS	SPEED (MPH)	VOC (G/MI)	NO _x (G/MI)	VMT (MI/DAY)	VOC (TPD)	NO _x (TPD)
01	63.0	1.200	4.834	1,239,860	1.64	6.61
02	58.5	1.275	2.597	64,290	0.09	0.18
06	49.5	1.325	2.124	207,228	0.30	0.49
07	45.0	1.371	1.791	660,296	1.00	1.30
08	36.0	1.457	1.819	184,935	0.30	0.37
09	27.0	2.296	1.824	252,612	0.64	0.51
11	58.5	1.282	2.517	1,460,397	2.06	4.05
12	58.5	1.303	2.072	0	0.00	0.00
14	49.5	1.353	1.653	623,533	0.93	1.14
16	45.0	1.394	1.473	731,458	1.12	1.19
17	36.0	1.476	1.411	237,673	0.39	0.37
19	27.0	2.298	1.331	94,667	0.24	0.14
				5,756,950	8.71	16.34

ROADWAY FUNCTIONAL CLASS CODE

- 01 - RURAL PRINCIPAL ARTERIAL, INTERSTATE
- 02 - RURAL PRINCIPAL ARTERIAL, OTHER
- 06 - RURAL MINOR ARTERIAL
- 07 - RURAL MAJOR COLLECTOR
- 08 - RURAL MINOR COLLECTOR
- 09 - RURAL LOCAL ROAD

- 11 - URBAN PRINCIPAL ARTERIAL, INTERSTATE
- 12 - URBAN PRINCIPAL ARTERIAL, FREEWAY
- 14 - URBAN PRINCIPAL ARTERIAL, OTHER
- 16 - URBAN MINOR ARTERIAL
- 17 - URBAN COLLECTOR
- 19 - URBAN LOCAL ROAD

LDEQ, OEA, 8/15/2006

```

* Calcasieu Parish; Ozone Season, 2002
***** Header Section *****
MOBILE6 INPUT FILE :
POLLUTANTS       : HC NOX
RUN DATA
***** Run Section *****
>Year 2002 - Calcasieu Parish Emission Factors
NO REFUELING      :
MIN/MAX TEMP      : 74.3 91.0
ABSOLUTE HUMIDITY : 153.6
FUEL RVP          : 7.8
REG DIST          : LA_REGD.D
ANTI-TAMP PROG    : 00 80 95 22222 21111111 1 11 072. 22222222
***** Scenario Section *****
SCENARIO REC      : Rural interstate, 63.0
CALENDAR YEAR     : 2002
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 63.0 Non-Ramp 100.0 0.0 0.0 0.0
VMT FRACTIONS     :
0.599 0.038 0.127 0.014 0.007 0.068 0.007 0.005
0.004 0.015 0.017 0.019 0.069 0.003 0.002 0.006
***** Scenario Section *****
SCENARIO REC      : Rural principal arterial, 58.5
CALENDAR YEAR     : 2002
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 58.5 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS     :
0.652 0.048 0.160 0.016 0.008 0.036 0.004 0.003
0.002 0.008 0.009 0.010 0.037 0.002 0.001 0.004
***** Scenario Section *****
SCENARIO REC      : Rural minor arterial, 49.5
CALENDAR YEAR     : 2002
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 49.5 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS     :
0.672 0.046 0.155 0.017 0.008 0.032 0.003 0.002
0.002 0.007 0.008 0.009 0.032 0.002 0.001 0.004
***** Scenario Section *****
SCENARIO REC      : Rural major collector, 45.0
CALENDAR YEAR     : 2002
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 45.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS     :
0.667 0.054 0.178 0.017 0.008 0.023 0.002 0.002
0.001 0.005 0.006 0.007 0.024 0.001 0.001 0.004
***** Scenario Section *****
SCENARIO REC      : Rural minor collector, 36.0
CALENDAR YEAR     : 2002
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 36.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS     :
0.639 0.056 0.186 0.009 0.004 0.027 0.003 0.002
0.002 0.006 0.007 0.008 0.027 0.001 0.001 0.022
***** Scenario Section *****
SCENARIO REC      : Rural local, 27.0
CALENDAR YEAR     : 2002
EVALUATION MONTH  : 7
ALTITUDE          : 1
VMT BY FACILITY   : localvmt.d
VMT FRACTIONS     :
0.654 0.057 0.189 0.003 0.002 0.024 0.002 0.002
0.001 0.005 0.006 0.007 0.025 0.001 0.001 0.021

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```

***** Scenario Section *****
SCENARIO REC      : Urban interstate, 58.5
CALENDAR YEAR    : 2002
EVALUATION MONTH : 7
ALTITUDE         : 1
AVERAGE SPEED   : 58.5 Non-Ramp 100.0 0.0 0.0 0.0
VMT FRACTIONS   :
0.720 0.037 0.122 0.019 0.009 0.030 0.003 0.002
0.002 0.006 0.008 0.008 0.030 0.001 0.001 0.002
***** Scenario Section *****
SCENARIO REC      : Urban other expressway, 58.5
CALENDAR YEAR    : 2002
EVALUATION MONTH : 7
ALTITUDE         : 1
AVERAGE SPEED   : 58.5 Non-Ramp 100.0 0.0 0.0 0.0
VMT FRACTIONS   :
0.764 0.034 0.112 0.018 0.008 0.020 0.002 0.002
0.001 0.004 0.005 0.006 0.021 0.001 0.000 0.002
***** Scenario Section *****
SCENARIO REC      : Urban principal arterial, 49.5
CALENDAR YEAR    : 2002
EVALUATION MONTH : 7
ALTITUDE         : 1
AVERAGE SPEED   : 49.5 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS   :
0.766 0.034 0.113 0.018 0.008 0.018 0.002 0.001
0.001 0.004 0.005 0.005 0.018 0.001 0.000 0.005
***** Scenario Section *****
SCENARIO REC      : Urban minor arterial, 45.0
CALENDAR YEAR    : 2002
EVALUATION MONTH : 7
ALTITUDE         : 1
AVERAGE SPEED   : 45.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS   :
0.773 0.040 0.131 0.009 0.004 0.013 0.001 0.001
0.001 0.003 0.003 0.004 0.014 0.001 0.000 0.002
***** Scenario Section *****
SCENARIO REC      : Urban collector, 36.0
CALENDAR YEAR    : 2002
EVALUATION MONTH : 7
ALTITUDE         : 1
AVERAGE SPEED   : 36.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS   :
0.772 0.037 0.125 0.007 0.003 0.013 0.001 0.001
0.001 0.003 0.003 0.004 0.013 0.001 0.000 0.015
***** Scenario Section *****
SCENARIO REC      : Urban local, 27.0
CALENDAR YEAR    : 2002
EVALUATION MONTH : 7
ALTITUDE         : 1
VMT BY FACILITY  : localvmt.d
VMT FRACTIONS   :
0.797 0.037 0.122 0.003 0.001 0.008 0.001 0.001
0.000 0.002 0.002 0.002 0.009 0.000 0.000 0.015

```

END OF RUN

CALCA_02.TXT

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 279. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

vehicle Type: GWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.6707	0.2008	0.0246		0.0299	0.0013	0.0006	0.0681	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.391	1.439	0.887	1.379	1.260	0.685	1.163	0.475	2.43	1.325
Composite NOX :	1.058	1.123	1.108	1.122	5.488	1.691	1.923	14.529	1.07	2.124

* # # # # # # # # # # # # # # # # # # #
 * Rural major collector, 45.0

* File 1, Run 1, Scenario 4.
 * # # # # # # # # # # # # # # # # # # #
 M583 warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.
 M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 279. ppm

Exhaust I/M Program: No
 Evap I/M Program: No

CALCA_02.TXT

ATP Program: Yes
 Reformulated Gas: NO

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWR:	<6000	>6000	(All)							
VMT Distribution:	0.6657	0.2318	0.0246	0.0212	0.0013	0.0006	0.0006	0.0508	0.0040	1.0000
Composite Emission Factors (g/mi):	1.466	0.898	1.411	1.314	0.705	1.265	0.507	2.44	1.371	
Composite VOC :	1.418	1.090	1.103	5.296	1.555	1.831	13.600	1.02	1.791	
Composite NOX :	1.049									

* * * * *
 * Rural minor collector, 36.0

* File 1, Run 1, Scenario 5.
 * * * * *
 M583 warning:

The user supplied arterial average speed of 36.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.

M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 279. ppm

Exhaust I/M Program: NO
 Evap I/M Program: NO
 ATP Program: Yes
 Reformulated Gas: NO

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWR:	<6000	>6000	(All)							
VMT Distribution:	0.6378	0.2418	0.0128	0.0254	0.0012	0.0004	0.0586	0.0220	1.0000	
Composite Emission Factors (g/mi):	1.522	0.922	1.492	1.541	0.771	1.761	0.596	2.58	1.457	
Composite VOC :	1.482	1.056	1.075	4.968	1.440	1.983	12.526	0.98	1.819	
Composite NOX :	1.036									

CALCA_02.TXT

* * * * *
 * Rural local, 27.0
 * File 1, Run 1, Scenario 6.
 * * * * *

* Reading Hourly Roadway VMT distribution from the following external
 * data file: LOCALVMT.D

Reading User Supplied ROADWAY VMT Factors

M615 Comment: User supplied VMT mix.

M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 279. ppm

Exhaust I/M Program: NO
 Evap I/M Program: NO
 ATP Program: Yes
 Reformulated Gas: NO

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All veh
GVWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.6527	0.2458	0.0049		0.0220	0.0013	0.0003	0.0520	0.0210	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	2.288	2.278	1.451	2.262	3.823	1.248	3.214	1.309	3.84	2.296
Composite NOX:	1.093	1.055	1.066	1.055	4.062	1.918	3.063	14.161	0.80	1.824

* * * * *
 * Urban interstate, 58.5

* File 1, Run 1, Scenario 7.
 * * * * *

M581 Warning: The user supplied freeway average speed of 58.5 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.

M 48 warning:

there are no sales for vehicle class HDGV8b
CALCA_02.TXT

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 279. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.7186	0.1588	0.0276	0.0278	0.0014	0.0006	0.0632	0.0020	1.0000	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.350	1.393	0.870	1.315	1.158	0.971	0.444	2.67	1.282	1.282
Composite NOX :	1.080	1.159	1.147	1.158	5.811	2.285	21.465	1.26	2.517	2.517

* * * * *
 * Urban other expressway, 58.5

* File 1, Run 1, Scenario 8.
 * * * * *
 M581 warning:
 The user supplied freeway average speed of 58.5
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.
 M 48 warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 279. ppm
 Exhaust I/M Program: No

CALCA_02.TXT

Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.7625	0.1459	0.0256		0.0185	0.0015	0.0005	0.0435	0.0020	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.350	1.393	0.870	1.314	1.180	0.665	0.966	0.443	2.67	1.303
Composite NOX :	1.080	1.159	1.142	1.157	5.822	2.176	2.280	21.524	1.26	2.072

* * * * *
 * Urban principal arterial, 49.5

* File 1, Run 1, Scenario 9.
 * * * * *
 M583 Warning:

The user supplied arterial average speed of 49.5
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.

M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 weathered RVP: 7.5 psi
 Fuel Sulfur Content: 279. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.7645	0.1469	0.0256		0.0168	0.0015	0.0005	0.0382	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.391	1.439	0.886	1.357	1.255	0.685	0.995	0.473	2.43	1.353
Composite NOX :	1.058	1.123	1.104	1.120	5.488	1.691	1.778	14.386	1.07	1.653

CALCA_02.TXT

* * * * *
 * Urban minor arterial, 45.0

* File 1, Run 1, Scenario 10.
 * * * * *
 * M583 warning:

The user supplied arterial average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.

M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2002
 Month: July

Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 279. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWWR:	<6000	>6000								
VMT Distribution:	0.7715	0.1708	0.0128		0.0123	0.0015	0.0004	0.0287	0.0020	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	1.418	1.466	0.897	1.426	1.354	0.705	1.457	0.507	2.44	1.394
Composite NOX :	1.049	1.105	1.086	1.103	5.335	1.555	1.982	13.580	1.02	1.473

* * * * *
 * Urban collector, 36.0

* File 1, Run 1, Scenario 11.
 * * * * *
 * M583 warning:

The user supplied arterial average speed of 36.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.

CALCA_02.TXT

M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 279. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.7705	0.1618	0.0099	0.0123	0.0015	0.0277	0.0003	0.0160	1.0000	

Composite Emission Factors (g/mi):

Composite VOC :	1.482	1.523	0.922	1.488	1.584	0.771	1.680	2.58	1.476
Composite NOX :	1.036	1.077	1.054	1.075	4.993	1.440	1.926	0.98	1.411

* * * * *
 * Urban local, 27.0

* File 1, Run 1, Scenario 12.

* * * * *

* Reading Hourly Roadway VMT distribution from the following external
 * data file: LOCALVMT.D

Reading User Supplied ROADWAY VMT Factors

M615 Comment: user supplied VMT mix.

M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2002
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 279. ppm

CALCA_02.TXT

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	ATI Veh
VMT Distribution:	0.7955	0.1588	0.0039	0.0073	0.0177	0.0002	0.0150	0.0150	0.0150	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	2.278	2.288	1.438	2.258	3.729	1.248	3.091	1.295	3.84	2.298
Composite NOX :	1.093	1.055	1.018	1.054	4.041	1.918	2.978	13.877	0.80	1.331

2008 PROJECTED ON-ROAD MOBILE EMISSIONS INVENTORY
 CALCASIEU PARISH
 PEAK OZONE SEASON, RVP 7.8

ROAD CLASS	SPEED (MPH)	VOC (G/M)	NOx (G/M)	VMT (MI/DAY)	VOC (TPD)	NOx (TPD)
01	63.0	0.682	2.707	1,428,674	1.07	4.26
02	58.5	0.722	1.511	74,081	0.06	0.12
06	49.5	0.758	1.218	238,786	0.20	0.32
07	45.0	0.788	1.024	760,851	0.66	0.86
08	36.0	0.865	1.043	213,098	0.20	0.24
09	27.0	1.344	1.103	252,612	0.37	0.31
11	58.5	0.722	1.396	1,702,613	1.36	2.62
12	58.5	0.733	1.149	0	0.00	0.00
14	49.5	0.774	0.943	722,870	0.62	0.75
16	45.0	0.798	0.836	819,475	0.72	0.76
17	36.0	0.869	0.804	241,384	0.23	0.21
19	27.0	1.337	0.784	94,667	0.14	0.08
				6,549,111	5.63	10.54

ROADWAY FUNCTIONAL CLASS CODE

- 01 - RURAL PRINCIPAL ARTERIAL, INTERSTATE
 02 - RURAL PRINCIPAL ARTERIAL, OTHER
 06 - RURAL MINOR ARTERIAL
 07 - RURAL MAJOR COLLECTOR
 08 - RURAL MINOR COLLECTOR
 09 - RURAL LOCAL ROAD
- 11 - URBAN PRINCIPAL ARTERIAL, INTERSTATE
 12 - URBAN PRINCIPAL ARTERIAL, FREEWAY
 14 - URBAN PRINCIPAL ARTERIAL, OTHER
 16 - URBAN MINOR ARTERIAL
 17 - URBAN COLLECTOR
 19 - URBAN LOCAL ROAD

LDEQ, OEA, 8/15/2006

```

* Calcasieu Parish; Ozone Season, 2008
***** Header Section *****
MOBILE6 INPUT FILE :
POLLUTANTS       : HC NOX
RUN DATA
***** Run Section *****
>Year 2008 - Calcasieu Parish Emission Factors
NO REFUELING      :
MIN/MAX TEMP      : 74.3 91.0
ABSOLUTE HUMIDITY : 153.6
FUEL RVP          : 7.8
REG DIST          : LA_REGD.D
ANTI-TAMP PROG    : 00 80 95 22222 21111111 1 11 072. 22222222
***** Scenario Section *****
SCENARIO REC      : Rural interstate, 63.0
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 63.0 Non-Ramp 100.0 0.0 0.0 0.0
VMT FRACTIONS     :
0.599 0.038 0.127 0.014 0.007 0.068 0.007 0.005
0.004 0.015 0.017 0.019 0.069 0.003 0.002 0.006
***** Scenario Section *****
SCENARIO REC      : Rural principal arterial, 58.5
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 58.5 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS     :
0.652 0.048 0.160 0.016 0.008 0.036 0.004 0.003
0.002 0.008 0.009 0.010 0.037 0.002 0.001 0.004
***** Scenario Section *****
SCENARIO REC      : Rural minor arterial, 49.5
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 49.5 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS     :
0.672 0.046 0.155 0.017 0.008 0.032 0.003 0.002
0.002 0.007 0.008 0.009 0.032 0.002 0.001 0.004
***** Scenario Section *****
SCENARIO REC      : Rural major collector, 45.0
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 45.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS     :
0.667 0.054 0.178 0.017 0.008 0.023 0.002 0.002
0.001 0.005 0.006 0.007 0.024 0.001 0.001 0.004
***** Scenario Section *****
SCENARIO REC      : Rural minor collector, 36.0
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 36.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS     :
0.639 0.056 0.186 0.009 0.004 0.027 0.003 0.002
0.002 0.006 0.007 0.008 0.027 0.001 0.001 0.022
***** Scenario Section *****
SCENARIO REC      : Rural local, 27.0
CALENDAR YEAR     : 2008
EVALUATION MONTH  : 7
ALTITUDE          : 1
VMT BY FACILITY   : localvmt.d
VMT FRACTIONS     :
0.654 0.057 0.189 0.003 0.002 0.024 0.002 0.002
0.001 0.005 0.006 0.007 0.025 0.001 0.001 0.021

```

```

***** Scenario Section *****
SCENARIO REC      : Urban interstate, 58.5
CALENDAR YEAR    : 2008
EVALUATION MONTH : 7
ALTITUDE         : 1
AVERAGE SPEED   : 58.5 Non-Ramp 100.0 0.0 0.0 0.0
VMT FRACTIONS   :
0.720 0.037 0.122 0.019 0.009 0.030 0.003 0.002
0.002 0.006 0.008 0.008 0.030 0.001 0.001 0.002
*****
Scenario Section *****
SCENARIO REC      : Urban other expressway, 58.5
CALENDAR YEAR    : 2008
EVALUATION MONTH : 7
ALTITUDE         : 1
AVERAGE SPEED   : 58.5 Non-Ramp 100.0 0.0 0.0 0.0
VMT FRACTIONS   :
0.764 0.034 0.112 0.018 0.008 0.020 0.002 0.002
0.001 0.004 0.005 0.006 0.021 0.001 0.000 0.002
*****
Scenario Section *****
SCENARIO REC      : Urban principal arterial, 49.5
CALENDAR YEAR    : 2008
EVALUATION MONTH : 7
ALTITUDE         : 1
AVERAGE SPEED   : 49.5 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS   :
0.766 0.034 0.113 0.018 0.008 0.018 0.002 0.001
0.001 0.004 0.005 0.005 0.018 0.001 0.000 0.006
*****
Scenario Section *****
SCENARIO REC      : Urban minor arterial, 45.0
CALENDAR YEAR    : 2008
EVALUATION MONTH : 7
ALTITUDE         : 1
AVERAGE SPEED   : 45.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS   :
0.773 0.040 0.131 0.009 0.004 0.013 0.001 0.001
0.001 0.003 0.003 0.004 0.014 0.001 0.000 0.002
*****
Scenario Section *****
SCENARIO REC      : Urban collector, 36.0
CALENDAR YEAR    : 2008
EVALUATION MONTH : 7
ALTITUDE         : 1
AVERAGE SPEED   : 36.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS   :
0.772 0.037 0.125 0.007 0.003 0.013 0.001 0.001
0.001 0.003 0.003 0.004 0.013 0.001 0.000 0.016
*****
Scenario Section *****
SCENARIO REC      : Urban local, 27.0
CALENDAR YEAR    : 2008
EVALUATION MONTH : 7
ALTITUDE         : 1
VMT BY FACILITY  : localvmt.d
VMT FRACTIONS   :
0.797 0.037 0.122 0.003 0.001 0.008 0.001 0.001
0.000 0.002 0.002 0.002 0.009 0.000 0.000 0.015

```

END OF RUN

CALCA_08.TXT

```

*****
* MOBILE6.2-03 (24-Sep-2003)
* Input file: C:\MOBILE6\RUN\CALCASIP\CALCA_08.IN (file 1, run 1).
*****
*Year 2008 - Calcasieu Parish Emission Factors
M603 Comment:

```

User has disabled the calculation of REFUELING emissions.

```

* Reading Registration Distributions from the following external
* data file: LA_REGD.D

```

```

* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
* Rural interstate, 63.0

```

```

* File 1, Run 1, Scenario 1.
* # # # # # # # # # # # # # # # # # # # # # # # # # # # # #
M581 warning:
The user supplied freeway average speed of 63.0
will be used for all hours of the day. 100% of VMT
has been assigned to the freeway roadway type for
all hours of the day and all vehicle types.

```

M615 Comment: User supplied VMT mix.

M 48 warning: there are no sales for vehicle class HDGV8b

```

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 74.3 (F)
Maximum Temperature: 91.0 (F)
Absolute Humidity: 154. grains/lb
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm
Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

```

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	ATT Veh
GVNR:	<6000	>6000	(All)	(All)						
VMT Distribution:	0.5984	0.1650	0.0207		0.0622	0.0006	0.0003	0.1468	0.0060	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.778	0.464	0.743	0.743	0.668	0.311	0.315	0.284	2.93	0.682
Composite NOX:	0.607	0.727	0.708	0.725	3.532	1.299	1.033	13.490	1.35	2.707

* #

CALCA_08.TXT

* Rural principal arterial, 58.5

* File 1, Run 1, Scenario 2.
 * #
 * #
 M583 warning:

The user supplied arterial average speed of 58.5 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M615 Comment:
 User supplied VMT mix.

M 48 warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: GWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.6513	0.2080	0.0236	0.0331	0.0007	0.0004	0.0789	0.0040	1.0000	1.0000
Composite Emission Factors (g/mi):										
Composite VOC:	0.753	0.791	0.471	0.758	0.312	0.326	0.286	2.62	0.722	0.722
Composite NOx:	0.600	0.716	0.697	0.714	1.097	0.883	10.586	1.26	1.511	1.511

* #
 * Rural minor arterial, 49.5

* File 1, Run 1, Scenario 3.
 * #
 * #
 M583 warning:

The user supplied arterial average speed of 49.5 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M615 Comment:
 User supplied VMT mix.

M 48 warning:
 there are no sales for vehicle class HDGV8b

CALCA_08.TXT

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: NO
 Evap I/M Program: NO
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWWR:	<6000	>6000	(All)							
VMT Distribution:	0.6713	0.2010	0.0246	0.0293	0.0007	0.0004	0.0687	0.0040	1.0000	
Composite Emission Factors (g/mi):	0.824	0.490	0.787	0.724	0.322	0.330	0.307	2.37	0.758	
Composite VOC :	0.787	0.694	0.692	3.238	0.853	0.678	8.266	1.07	1.218	
Composite NOX :	0.587									

* * * * * Rural major collector, 45.0

* File 1, Run 1, Scenario 4.

* * * * * M583 warning:

The user supplied arterial average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M615 Comment: user supplied VMT mix.

M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: NO
 Evap I/M Program: NO

CALCA_08.TXT

ATP Program: Yes
Reformulated Gas: NO

Vehicle Type: GWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.6663	0.2320	0.0246		0.0208	0.0007	0.0004	0.0512	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.808	0.842	0.501	0.809	0.753	0.332	0.355	0.325	2.39	0.788
Composite NOX :	0.582	0.683	0.663	0.681	3.120	0.784	0.636	7.646	1.02	1.024

* # # # # # # # # # # # # # # # # # # #
* Rural minor collector, 36.0

* File 1, Run 1, Scenario 5.
* # # # # # # # # # # # # # # # # # # #
M583 Warning:
The user supplied arterial average speed of 36.0
will be used for all hours of the day, 100% of VMT
has been assigned to the arterial/collector roadway
type for all hours of the day and all vehicle types.
M615 Comment:
user supplied VMT mix.
M 48 Warning:
there are no sales for vehicle class HDGV8b

Calendar Year: 2008
Month: July
Altitude: Low
Minimum Temperature: 74.3 (F)
Maximum Temperature: 91.0 (F)
Absolute Humidity: 154. grains/lb
Nominal Fuel RVP: 7.8 psi
Weathered RVP: 7.5 psi
Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type: GWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.6383	0.2420	0.0128		0.0250	0.0007	0.0002	0.0590	0.0220	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.854	0.880	0.524	0.862	0.865	0.363	0.497	0.383	2.52	0.865
Composite NOX :	0.575	0.666	0.644	0.665	2.928	0.726	0.675	6.974	0.98	1.043

CALCA_08.TXT

* * * * *
 * Rural Local, 27.0
 * * * * *

* File 1, Run 1, Scenario 6.
 * * * * *

* Reading Hourly Roadway VMT distribution from the following external
 * data file: LOCALVMT.D

Reading User Supplied ROADWAY VMT Factors

M615 Comment: User supplied VMT mix.

M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.6533	0.2460	0.0049	0.0216	0.0007	0.0001	0.0524	0.0210	1.0000	
Composite Emission Factors (g/mi):										
Composite VOC :	1.307	1.301	0.828	1.291	1.953	0.592	1.153	0.840	3.78	1.344
Composite NOX :	0.619	0.670	0.677	0.670	2.393	0.967	1.195	8.802	0.80	1.103

* * * * *
 * Urban interstate, 58.5
 * * * * *

* File 1, Run 1, Scenario 7.
 * * * * *

M581 warning: The user supplied freeway average speed of 58.5
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.

M 48 warning:

there are no sales for vehicle class HDGV8b
 CALCA_08.TXT

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: NO
 Evap I/M Program: NO
 ATP Program: Yes
 Reformulated Gas: NO

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:		<6000	>6000							
VMT Distribution:	0.7192	0.1590	0.0276		0.0274	0.0008	0.0004	0.0636	0.0020	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.753	0.791	0.471	0.744	0.670	0.312	0.291	0.285	2.62	0.722
Composite NOX :	0.600	0.716	0.694	0.712	3.423	1.097	0.840	11.538	1.26	1.396

* #
 * Urban other expressway, 58.5

* File 1, Run 1, Scenario 8.
 * #
 * M581 warning: The user supplied freeway average speed of 58.5 will be used for all hours of the day. 100% of VMT has been assigned to the freeway roadway type for all hours of the day and all vehicle types.

M615 Comment: user supplied VMT mix.

M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: NO

CALCAL_08.TXT

Evap I/M Program: NO
 ATP Program: Yes
 Reformulated Gas: NO

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.7632	0.1460	0.0256	0.0182	0.0008	0.0004	0.0438	0.0070	1.0000	

Composite Emission Factors (g/mi):

Composite VOC :	0.791	0.470	0.743	0.287	2.62	0.733
Composite NOX :	0.600	0.716	0.712	3.430	1.26	1.149

* * * * *
 * Urban principal arterial, 49.5

* File 1, Run 1, Scenario 9.

* * * * *
 M583 warning:
 The user supplied arterial average speed of 49.5
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M615 Comment:
 User supplied VMT mix.

M 48 warning:
 there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July

Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: NO
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: NO

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.7652	0.1470	0.0256	0.0165	0.0008	0.0004	0.0385	0.0060	1.0000	

Composite Emission Factors (g/mi):

Composite VOC :	0.824	0.489	0.774	0.307	2.37	0.774
Composite NOX :	0.787	0.670	0.690	8.142	1.07	0.943

CALCA_08.TXT

* * * * *
 * Urban minor arterial, 45.0

* File 1, Run 1, Scenario 10.
 * * * * *
 * M583 warning:

The user supplied arterial average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.

M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000								
VMT Distribution:	0.7722	0.1710	0.0128		0.0120	0.0008	0.0002	0.0290	0.0020	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.808	0.842	0.500	0.818	0.773	0.332	0.398	0.329	2.39	0.798
Composite NOX :	0.582	0.683	0.660	0.681	3.153	0.784	0.676	7.594	1.02	0.836

* * * * *
 * Urban collector, 36.0

* File 1, Run 1, Scenario 11.
 * * * * *
 * M583 warning:

The user supplied arterial average speed of 36.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.

CALCA_08.TXT

M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: NO
 Evap I/M Program: NO
 ATP Program: Yes
 Reformulated Gas: NO

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.7712	0.1620	0.0099	0.0120	0.0008	0.0002	0.0280	0.0160	1.0000	
Composite Emission Factors (g/mi):										
Composite VOC :	0.880	0.524	0.860	0.885	0.363	0.470	0.389	2.52	0.869	
Composite NOX :	0.854	0.642	0.665	2.951	0.726	0.654	6.963	0.98	0.804	

* * * * * Urban local, 27.0

* * * * * File 1, Run 1, Scenario 12.

* * * * * Reading Hourly Roadway VMT distribution from the following external data file: LOCALVMT.D

Reading user supplied ROADWAY VMT Factors
M615 Comment: User supplied VMT mix.

M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2008
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

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Exhaust I/M Program: NO
 Evap I/M Program: NO
 ATP Program: Yes
 Reformulated Gas: NO

vehicle Type: GWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.7961	0.1590	0.0039		0.0072	0.0009	0.0001	0.0178	0.0150	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	1.301	1.289	1.904	1.052	3.78	1.337
Composite NOX :	1.307	0.669	2.371	1.112	0.80	0.784

2011 PROJECTED ON-ROAD MOBILE EMISSIONS INVENTORY
 CALCASIEU PARISH
 PEAK OZONE SEASON, RVP 7.8

ROAD CLASS	SPEED (MPH)	VOC (G/MI)	NOx (G/MI)	VMT (MI/DAY)	VOC (TPD)	NOx (TPD)
01	63.0	0.551	1.902	1,510,016	0.92	3.17
02	58.5	0.582	1.096	78,299	0.05	0.09
06	49.5	0.608	0.893	252,381	0.17	0.25
07	45.0	0.631	0.760	804,170	0.56	0.67
08	36.0	0.700	0.777	225,231	0.17	0.19
09	27.0	1.072	0.830	206,755	0.24	0.19
11	58.5	0.579	1.008	1,790,262	1.14	1.99
12	58.5	0.586	0.841	0	0.00	0.00
14	49.5	0.619	0.703	748,141	0.51	0.53
16	45.0	0.636	0.630	764,178	0.54	0.53
17	36.0	0.696	0.611	149,275	0.11	0.10
19	27.0	1.058	0.606	53,578	0.06	0.04
				6,582,285	4.48	7.80

ROADWAY FUNCTIONAL CLASS CODE

01 - RURAL PRINCIPAL ARTERIAL, INTERSTATE
 02 - RURAL PRINCIPAL ARTERIAL, OTHER
 06 - RURAL MINOR ARTERIAL
 07 - RURAL MAJOR COLLECTOR
 08 - RURAL MINOR COLLECTOR
 09 - RURAL LOCAL ROAD

11 - URBAN PRINCIPAL ARTERIAL, INTERSTATE
 12 - URBAN PRINCIPAL ARTERIAL, FREEWAY
 14 - URBAN PRINCIPAL ARTERIAL, OTHER
 16 - URBAN MINOR ARTERIAL
 17 - URBAN COLLECTOR
 19 - URBAN LOCAL ROAD

LDEQ, OEA, 8/15/2006

```

* Calcasieu Parish; Ozone Season, 2011
***** Header Section *****
MOBILE6 INPUT FILE :
POLLUTANTS       : HC NOX
RUN DATA
***** Run Section *****
>Year 2011 - Calcasieu Parish Emission Factors
NO REFUELING      :
MIN/MAX TEMP      : 74.3 91.0
ABSOLUTE HUMIDITY : 153.6
FUEL RVP          : 7.8
REG DIST          : LA_REGD.D
ANTI-TAMP PROG    : 00 80 95 22222 21111111 1 11 072. 22222222
***** Scenario Section *****
SCENARIO REC      : Rural interstate, 63.0
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 63.0 Non-Ramp 100.0 0.0 0.0 0.0
VMT FRACTIONS     :
0.599 0.038 0.127 0.014 0.007 0.068 0.007 0.005
0.004 0.015 0.017 0.019 0.069 0.003 0.002 0.006
***** Scenario Section *****
SCENARIO REC      : Rural principal arterial, 58.5
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 58.5 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS     :
0.652 0.048 0.160 0.016 0.008 0.036 0.004 0.003
0.002 0.008 0.009 0.010 0.037 0.002 0.001 0.004
***** Scenario Section *****
SCENARIO REC      : Rural minor arterial, 49.5
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 49.5 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS     :
0.672 0.046 0.155 0.017 0.008 0.032 0.003 0.002
0.002 0.007 0.008 0.009 0.032 0.002 0.001 0.004
***** Scenario Section *****
SCENARIO REC      : Rural major collector, 45.0
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 45.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS     :
0.667 0.054 0.178 0.017 0.008 0.023 0.002 0.002
0.001 0.005 0.006 0.007 0.024 0.001 0.001 0.004
***** Scenario Section *****
SCENARIO REC      : Rural minor collector, 36.0
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 36.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS     :
0.639 0.056 0.186 0.009 0.004 0.027 0.003 0.002
0.002 0.006 0.007 0.008 0.027 0.001 0.001 0.022
***** Scenario Section *****
SCENARIO REC      : Rural local, 27.0
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
ALTITUDE          : 1
VMT BY FACILITY   : localvmt.d
VMT FRACTIONS     :
0.654 0.057 0.189 0.003 0.002 0.024 0.002 0.002
0.001 0.005 0.006 0.007 0.025 0.001 0.001 0.021

```

```

***** Scenario Section *****
SCENARIO REC      : Urban interstate, 58.5
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 58.5 Non-Ramp 100.0 0.0 0.0 0.0
VMT FRACTIONS    :
0.720 0.037 0.122 0.019 0.009 0.030 0.003 0.002
0.002 0.006 0.008 0.008 0.030 0.001 0.001 0.002
***** Scenario Section *****
SCENARIO REC      : Urban other expressway, 58.5
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 58.5 Non-Ramp 100.0 0.0 0.0 0.0
VMT FRACTIONS    :
0.764 0.034 0.112 0.018 0.008 0.020 0.002 0.002
0.001 0.004 0.005 0.006 0.021 0.001 0.000 0.002
***** Scenario Section *****
SCENARIO REC      : Urban principal arterial, 49.5
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 49.5 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS    :
0.766 0.034 0.113 0.018 0.008 0.018 0.002 0.001
0.001 0.004 0.005 0.005 0.018 0.001 0.000 0.006
***** Scenario Section *****
SCENARIO REC      : Urban minor arterial, 45.0
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 45.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS    :
0.773 0.040 0.131 0.009 0.004 0.013 0.001 0.001
0.001 0.003 0.003 0.004 0.014 0.001 0.000 0.002
***** Scenario Section *****
SCENARIO REC      : Urban collector, 36.0
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 36.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS    :
0.772 0.037 0.125 0.007 0.003 0.013 0.001 0.001
0.001 0.003 0.003 0.004 0.013 0.001 0.000 0.016
***** Scenario Section *****
SCENARIO REC      : Urban local, 27.0
CALENDAR YEAR     : 2011
EVALUATION MONTH  : 7
ALTITUDE          : 1
VMT BY FACILITY   : localvmt.d
VMT FRACTIONS    :
0.797 0.037 0.122 0.003 0.001 0.008 0.001 0.001
0.000 0.002 0.002 0.002 0.009 0.000 0.000 0.015

```

END OF RUN

CALCA_11.TXT

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: GVWR:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.6714	0.2010	0.0246	0.0292	0.0006	0.0004	0.0688	0.0040	1.0000	0.608
Composite Emission Factors (g/mi):										
Composite VOC :	0.620	0.689	0.389	0.656	0.145	0.166	0.255	2.33	0.608	0.893
Composite NOX :	0.456	0.562	0.493	0.554	0.367	0.353	5.706	1.07	0.893	

* #
 * Rural major collector, 45.0

* File 1, Run 1, Scenario 4.
 * #
 * M583 warning:
 The user supplied arterial average speed of 45.0
 will be used for all hours of the day. 100% of VMT
 has been assigned to the arterial/collector roadway
 type for all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.
 M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No

CALCA_11.TXT

ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWVR:	<6000	>6000	(All)							
VMT Distribution:	0.6664	0.2320	0.0246	0.0208	0.0006	0.0004	0.0512	0.0040	0.0040	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.635	0.702	0.397	0.673	0.150	0.173	0.270	2.35	0.631
Composite NOX :	0.452	0.553	0.486	2.120	0.337	0.325	5.268	1.02	0.760

* * * * *
 * Rural minor collector, 36.0

* File 1, Run 1, scenario 5.

* * * * *
 * M583 warning:

The user supplied arterial average speed of 36.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.

M 48 warning:

there are no sales for vehicle class HDGV8b

Calendar Year: 2011

Month: July

Altitude: Low

Minimum Temperature: 74.3 (F)

Maximum Temperature: 91.0 (F)

Absolute Humidity: 154. grains/lb

Nominal Fuel RVP: 7.8 psi

weathered RVP: 7.5 psi

Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No

Evap I/M Program: No

ATP Program: Yes

Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWVR:	<6000	>6000	(All)							
VMT Distribution:	0.6384	0.2420	0.0128	0.0249	0.0006	0.0002	0.0591	0.0220	0.0220	1.0000

Composite Emission Factors (g/mi):

Composite VOC :	0.670	0.730	0.414	0.715	0.166	0.200	0.318	2.48	0.700
Composite NOX :	0.447	0.540	0.472	1.988	0.312	0.305	4.796	0.98	0.777

there are no sales for vehicle class HDGV8b CALCA11.TXT

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (AT1)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWVR:		<6000	>6000							
VMT Distribution:	0.7194	0.1590	0.0276		0.0273	0.0006	0.0004	0.0637	0.0020	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.595	0.665	0.376	0.622	0.530	0.140	0.158	0.237	2.57	0.579
Composite NOX :	0.465	0.578	0.509	0.568	2.325	0.473	0.455	7.867	1.26	1.008

* * * * *
 * Urban other expressway, 58.5

* File 1, Run 1, Scenario 8.
 * * * * *
 M581 warning:
 The user supplied freeway average speed of 58.5
 will be used for all hours of the day. 100% of VMT
 has been assigned to the freeway roadway type for
 all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.
 M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: No

CALCA_11.TXT

Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
	0.7633	0.1460	0.0256		0.0181	0.0007	0.0004	0.0439	0.0020	1.0000

Composite Emission Factors (g/mi):
 Composite VOC : 0.595 0.665 0.376 0.622 0.531 0.140 0.158 0.239 2.57 0.586
 Composite NOX : 0.465 0.578 0.507 0.567 2.330 0.473 0.455 7.817 1.26 0.841

* #
* Urban principal arterial, 49.5

* File 1, Run 1, Scenario 9.
* #
* M583 warning:

The user supplied arterial average speed of 49.5 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.

M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
Evap I/M Program: No
ATP Program: Yes
Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
	0.7653	0.1470	0.0256		0.0165	0.0007	0.0004	0.0385	0.0060	1.0000

Composite Emission Factors (g/mi):
 Composite VOC : 0.620 0.688 0.389 0.644 0.561 0.145 0.164 0.255 2.33 0.619
 Composite NOX : 0.456 0.561 0.491 0.551 2.198 0.367 0.352 5.599 1.07 0.703

CALCA_11.TXT

M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (A11)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVMR:	<6000	>6000								
VMT Distribution:	0.7713	0.1620	0.0099		0.0119	0.0007	0.0001	0.0281	0.0160	1.0000

Composite Emission Factors (g/mi):
 Composite VOC : 0.670 0.731 0.414 0.712 0.665 0.166 0.199 0.324 2.48 0.696
 Composite NOX : 0.447 0.540 0.471 0.536 2.007 0.312 0.304 4.794 0.98 0.611

* * * * *
 * Urban local, 27.0

* File 1, Run 1, Scenario 12.
 * * * * *

* Reading Hourly Roadway VMT distribution from the following external
 * data file: LOCALVMT.D

Reading user supplied ROADWAY VMT Factors

M615 Comment: user supplied VMT mix.

M 48 warning: there are no sales for vehicle class HDGV8b

Calendar Year: 2011
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

CALCAL11.TXT

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12 <6000	LDGT34 >6000	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
VMT Distribution:	0.7963	0.1590	0.0039	0.0072	0.0007	0.0001	0.0178	0.0150	1.0000	
Composite Emission Factors (g/mi):										
Composite VOC :	1.015	1.060	0.646	1.050	1.325	0.281	0.374	0.692	3.74	1.058
Composite NOX :	0.488	0.548	0.471	0.546	1.608	0.417	0.424	5.902	0.80	0.606

2014 PROJECTED ON-ROAD MOBILE EMISSIONS INVENTORY
 CALCASIEU PARISH
 PEAK OZONE SEASON, RVP 7.8

ROAD CLASS	SPEED (MPH)	VOC (G/MI)	NOx (G/MI)	VMT (MI/DAY)	VOC (TPD)	NOx (TPD)
01	63.0	0.442	1.272	1,590,674	0.77	2.23
02	58.5	0.464	0.766	82,481	0.04	0.07
06	49.5	0.482	0.636	265,862	0.14	0.19
07	45.0	0.501	0.552	847,125	0.47	0.52
08	36.0	0.564	0.567	237,261	0.15	0.15
09	27.0	0.863	0.609	207,588	0.20	0.14
11	58.5	0.459	0.708	1,859,564	0.94	1.45
12	58.5	0.465	0.603	0	0.00	0.00
14	49.5	0.490	0.515	776,633	0.42	0.44
16	45.0	0.501	0.469	789,926	0.44	0.41
17	36.0	0.556	0.461	150,943	0.09	0.08
19	27.0	0.844	0.467	53,844	0.05	0.03
				6,861,901	3.71	5.69

ROADWAY FUNCTIONAL CLASS CODE

01 - RURAL PRINCIPAL ARTERIAL, INTERSTATE
 02 - RURAL PRINCIPAL ARTERIAL, OTHER
 06 - RURAL MINOR ARTERIAL
 07 - RURAL MAJOR COLLECTOR
 08 - RURAL MINOR COLLECTOR
 09 - RURAL LOCAL ROAD

11 - URBAN PRINCIPAL ARTERIAL, INTERSTATE
 12 - URBAN PRINCIPAL ARTERIAL, FREEWAY
 14 - URBAN PRINCIPAL ARTERIAL, OTHER
 16 - URBAN MINOR ARTERIAL
 17 - URBAN COLLECTOR
 19 - URBAN LOCAL ROAD

LDEQ, OEA, 8/15/2006

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* Calcasieu Parish; Ozone Season, 2014
***** Header Section *****
MOBILE6 INPUT FILE :
POLLUTANTS       : HC NOX
RUN DATA
***** Run Section *****
>Year 2014 - Calcasieu Parish Emission Factors
NO REFUELING      :
MIN/MAX TEMP      : 74.3 91.0
ABSOLUTE HUMIDITY : 153.6
FUEL RVP          : 7.8
REG DIST          : LA_REGD.D
ANTI-TAMP PROG    : 00 80 95 22222 21111111 1 11 072. 22222222
***** Scenario Section *****
SCENARIO REC      : Rural interstate, 63.0
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 63.0 Non-Ramp 100.0 0.0 0.0 0.0
VMT FRACTIONS    :
0.599 0.038 0.127 0.014 0.007 0.068 0.007 0.005
0.004 0.015 0.017 0.019 0.069 0.003 0.002 0.006
***** Scenario Section *****
SCENARIO REC      : Rural principal arterial, 58.5
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 58.5 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS    :
0.652 0.048 0.160 0.016 0.008 0.036 0.004 0.003
0.002 0.008 0.009 0.010 0.037 0.002 0.001 0.004
***** Scenario Section *****
SCENARIO REC      : Rural minor arterial, 49.5
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 49.5 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS    :
0.672 0.046 0.155 0.017 0.008 0.032 0.003 0.002
0.002 0.007 0.008 0.009 0.032 0.002 0.001 0.004
***** Scenario Section *****
SCENARIO REC      : Rural major collector, 45.0
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 45.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS    :
0.667 0.054 0.178 0.017 0.008 0.023 0.002 0.002
0.001 0.005 0.006 0.007 0.024 0.001 0.001 0.004
***** Scenario Section *****
SCENARIO REC      : Rural minor collector, 36.0
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 36.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS    :
0.639 0.056 0.186 0.009 0.004 0.027 0.003 0.002
0.002 0.006 0.007 0.008 0.027 0.001 0.001 0.022
***** Scenario Section *****
SCENARIO REC      : Rural local, 27.0
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
ALTITUDE          : 1
VMT BY FACILITY   : localvmt.d
VMT FRACTIONS    :
0.654 0.057 0.189 0.003 0.002 0.024 0.002 0.002
0.001 0.005 0.006 0.007 0.025 0.001 0.001 0.021

```

```

***** Scenario Section *****
SCENARIO REC      : Urban interstate, 58.5
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 58.5 Non-Ramp 100.0 0.0 0.0 0.0
VMT FRACTIONS    :
0.720 0.037 0.122 0.019 0.009 0.030 0.003 0.002
0.002 0.006 0.008 0.008 0.030 0.001 0.001 0.002
***** Scenario Section *****
SCENARIO REC      : Urban other expressway, 58.5
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 58.5 Non-Ramp 100.0 0.0 0.0 0.0
VMT FRACTIONS    :
0.764 0.034 0.112 0.018 0.008 0.020 0.002 0.002
0.001 0.004 0.005 0.006 0.021 0.001 0.000 0.002
***** Scenario Section *****
SCENARIO REC      : Urban principal arterial, 49.5
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 49.5 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS    :
0.766 0.034 0.113 0.018 0.008 0.018 0.002 0.001
0.001 0.004 0.005 0.005 0.018 0.001 0.000 0.006
***** Scenario Section *****
SCENARIO REC      : Urban minor arterial, 45.0
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 45.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS    :
0.773 0.040 0.131 0.009 0.004 0.013 0.001 0.001
0.001 0.003 0.003 0.004 0.014 0.001 0.000 0.002
***** Scenario Section *****
SCENARIO REC      : Urban collector, 36.0
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
ALTITUDE          : 1
AVERAGE SPEED    : 36.0 Arterial 0.0 100.0 0.0 0.0
VMT FRACTIONS    :
0.772 0.037 0.125 0.007 0.003 0.013 0.001 0.001
0.001 0.003 0.003 0.004 0.013 0.001 0.000 0.016
***** Scenario Section *****
SCENARIO REC      : Urban local, 27.0
CALENDAR YEAR     : 2014
EVALUATION MONTH  : 7
ALTITUDE          : 1
VMT BY FACILITY   : localvmt.d
VMT FRACTIONS    :
0.797 0.037 0.122 0.003 0.001 0.008 0.001 0.001
0.000 0.002 0.002 0.002 0.009 0.000 0.000 0.015

```

END OF RUN

CALCA_14.TXT

* * * * *
 * Rural principal arterial, 58.5

* File 1, Run 1, scenario 2.
 * * * * *
 M583 warning: The user supplied arterial average speed of 58.5 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.

M 48 warning: there are no sales for vehicle class HDGV8b

M 48 warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 Weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type:	LDGV	LDGT12	LDGT34	LDGT (All)	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GWR:	<6000	>6000	>6000	(All)						
VMT Distribution:	0.6514	0.2080	0.0236		0.0329	0.0006	0.0004	0.0791	0.0040	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.540	0.540	0.308	0.516	0.414	0.086	0.115	0.202	2.57	0.464
Composite NOX :	0.467	0.469	0.398	0.462	1.478	0.250	0.301	4.664	1.26	0.766

* * * * *
 * Rural minor arterial, 49.5

* File 1, Run 1, scenario 3.
 * * * * *
 M583 warning: The user supplied arterial average speed of 49.5 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

CALCA_14.TXT

M615 Comment: User supplied VMT mix.
 M 48 warning: there are no sales for vehicle class HDGV8b
 M 48 warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: NO
 Evap I/M Program: NO
 ATP Program: Yes
 Reformulated Gas: NO

Vehicle Type:	LOGV	LDGT12	LDGT34	LDGT	HDGV	LDDV	LDDT	HDDV	MC	All Veh
GVWR:	<6000	>6000	(All)							
VMT Distribution:	0.6714	0.2010	0.0246	0.0291	0.0006	0.0004	0.0689	0.0040	2.33	1.0000
Composite Emission Factors (g/mi):										
Composite VOC :	0.484	0.557	0.318	0.437	0.090	0.119	0.217	0.482		
Composite NOX :	0.355	0.456	0.384	1.392	0.194	0.233	3.647	1.07		

* * * * *
 * Rural major collector, 45.0
 * File 1, Run 1, Scenario 4.
 * * * * *
 M583 warning: The user supplied arterial average speed of 45.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.
 M615 Comment: User supplied VMT mix.
 M 48 warning: there are no sales for vehicle class HDGV8b
 M 48 warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)

CALCA_14.TXT

Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm

Exhaust I/M Program: No
 Evap I/M Program: No
 ATP Program: Yes
 Reformulated Gas: No

Vehicle Type: LDGV LDGT12 LDGT34 LDGT (All) HDGV LDDV LDDT HDDV MC All veh
 GVWR: <6000 >6000
 VMT Distribution: 0.6664 0.2320 0.0246 0.0207 0.0006 0.0004 0.0513 0.0040 1.0000

Composite Emission Factors (g/mi):

Composite VOC : 0.496 0.566 0.324 0.543 0.454 0.093 0.124 0.229 0.501
 Composite NOX : 0.352 0.449 0.378 0.442 1.342 0.178 0.213 3.360 1.02 0.552

* #
 * Rural minor collector, 36.0

* File 1, Run 1, Scenario 5.
 * #
 M583 Warning: The user supplied arterial average speed of 36.0 will be used for all hours of the day. 100% of VMT has been assigned to the arterial/collector roadway type for all hours of the day and all vehicle types.

M615 Comment: User supplied VMT mix.
 M 48 warning: there are no sales for vehicle class HDGV8b
 M 48 warning: there are no sales for vehicle class LDDT12

Calendar Year: 2014
 Month: July
 Altitude: Low
 Minimum Temperature: 74.3 (F)
 Maximum Temperature: 91.0 (F)
 Absolute Humidity: 154. grains/lb
 Nominal Fuel RVP: 7.8 psi
 weathered RVP: 7.5 psi
 Fuel Sulfur Content: 30. ppm
 Exhaust I/M Program: NO
 Evap I/M Program: NO
 ATP Program: Yes
 Reformulated Gas: NO

